



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

REISSUE SERIAL NO.

FILED

GROUP ART UNIT

EXAMINER

PATENT NO.

INVENTORS

TITLE

5,397,857

Farquhar et al.

PCMCIA STANDARD MEMORY CARD

FRAME

TRANSMITTAL LETTER FOR REISSUE APPLICATION

Assistant Commissioner for Patents Washington, D.C. 20231

SIR:

Submitted herewith is a Reissue Application with its Attachment for Methode Electronics, Inc. Enclosed is the requisite filing fee of \$1,076.00. Please charge any additional fees that may be due and owing or credit any over payment to Deposit Account No. 08-2290. A duplicate of this sheet is enclosed for this purpose.

Respectfully submitted,

(Req. No. 30,142)

Robert M. Barrett
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ATTORNEYS FOR APPLICANTS Robert M. Barrett



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5,397,857 PATENT NO.

Farquhar et al. INVENTORS

PCMCIA STANDARD MEMORY CARD TITLE

FRAME

TITLE REPORT ORDER

In connection with the identified reissue application, please provide a certified copy of an abstract of title or a title report to be placed in the file. Enclosed is the requisite fee of \$25.00. Please charge additional fees that may be due to Deposit Account No. 08-2290. A duplicate copy of this sheet is enclosed for that purpose.

Respectfully submitted,

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ATTORNEYS FOR APPLICANTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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PATENT NO. : 5,397,857

INVENTORS : Farquhar et al.

TITLE : PCMCIA STANDARD MEMORY CARD

FRAME

CERTIFICATE OF MAILING BY EXPRESS MAIL

SIR:

I hereby certify that the following 5 unexecuted Inventor's Declarations and Power of Attorney, Attorney of Record's Declaration, Title Report Order and a check in the amount of \$25.00, Reissue Application totalling 9 pages including 23 claims and Attachment A to Reissue Application, Reissue Application Transmittal Letter in duplicate and a check for the requisite filing fee of \$1,076.00, were deposited in the United States Postal Service Express Mail "Post Office to Addressee" in an envelope marked with Express Mail Certificate # EM 328840003US on Friday, March 14, 1997.

Signature of person mailing documents and fees







67846 U.S. PTO 08/818520

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March 14, 1997

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VIA EXPRESS MAIL

Asst. Commissioner for Patents Box 7 Washington, D.C. 20231

Re: Reissue Patent application for Farquhar et al. entitled: "PCMCIA STANDARD MEMORY CARD FRAME," U.S. Patent No.: 5,397,857

SIR:

Under the provisions of 37 CFR \$1.41(c), I am filing the attached Reissue Application totalling 9 pages with 23 claims, Attachment A to Reissue Application and unsigned Declaration and Power of Attorney on behalf of Jim Farquhar.

Respectfully

Robert M. Barrett (Reg. No. 30,142) ATTORNEY FOR APPLICANTS

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Reissue Patent application for Farquhar et al. entitled: "PCMCIA STANDARD MEMORY CARD FRAME," Re:

U.S. Patent No.: 5,397,857

SIR:

Under the provisions of 37 CFR §1.41(c), I am filing the attached Reissue Application totalling 9 pages with 23 claims, Attachment A to Reissue Application and unsigned Declaration and Power of Attorney on behalf of Iggoni Fajardo.

Respectfully

(Reg. No. 30,142) Robert M. Barrett ATTORNEY FOR APPLICANTS





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Re: Reissue Patent application for Farquhar et al. entitled: "PCMCIA STANDARD MEMORY CARD FRAME," U.S. Patent No.: 5,397,857

SIR:

Under the provisions of 37 CFR \$1.41(c), I am filing the attached Reissue Application totalling 9 pages with 23 claims, Attachment A to Reissue Application and unsigned Declaration and Power of Attorney on behalf of Ken Dorf.

Respectfully,

Robert M. Barrett (Reg. No. 30,142) ATTORNEY FOR APPLICANTS





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Re: Reissue Patent application for Farquhar et al. entitled: "PCMCIA STANDARD MEMORY CARD FRAME,"
U.S. Patent No.: 5,397,857

ŞIR:

Under the provisions of 37 CFR \$1.41(c), I am filing the attached Reissue Application totalling 9 pages with 23 claims, Attachment A to Reissue Application and unsigned Declaration and Power of Attorney on behalf of Brandt Weibezahn.

Respectfully,

Robert M. Barrett (Reg. No. 30,142)
ATTORNEY FOR APPLICANTS

1060/1165:1185 Enclosures

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Re: Reissue Patent application for Farquhar et al. entitled: "PCMCIA STANDARD MEMORY CARD FRAME," U.S. Patent No.: 5,397,857

SIR:

Under the provisions of 37 CFR \$1.41(c), I am filing the attached Reissue Application totalling 9 pages with 23 claims, Attachment A to Reissue Application and unsigned Declaration and Power of Attorney on behalf of Charles Centofante.

Respectfully

Robert M. Barrett (Reg. No. 30,142) ATTORNEY FOR APPLICANTS

United States Patent [19]

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	raic	1111151	C.	

[54]	PCMCIA STANI	DARD MEMORY CARD		
ויכן	FRAME	1-00		
{75}	Inventors: Jim Cent Jose Iggo	Farquuar, Coronado; Charhe ofante, Hollister; Ken Dorf, San Brandt Weibezahn, Pleasanton; ni Fajardo, San Jose, all of Calif		
[73]	Assignee: Dual	Systems, San Jose, Calif.		
[21]	Appl. No.: 92,0			
[22]		15, 1993		
	Int. Cl.6			
[51]	Int. C			
[52]		3017313		
[58]	Field of Search			
[56]	Re	ferences Cited		
, ,	U.S. PATENT DOCUMENTS			
	3,579,817 5/1971	Boyle 174/52 4		
	3.901.731 8/1975	Wasanawashi et al		
	4,164,068 8/1979	Shropshire et al 130773.1		
	4,305,897 12/1981	Hazama et al		
	5,107,073 4/1992			
	5,208,732 5/1993	Baudouin et al		
	5 242 310 9/1993	Leung		



US005397857A

Patent Number: (11)

5,397,857

Date of Patent: [45]

Mar. 14, 1995

OTHER PUBLICATIONS

Branson Technical Brochure, PW-4, Ultrasonic Insertion, Nov. 1981.

Brauson Technical Brochure, PW-3, Joint Design For Ultrasonic Welding, Aug. 1980.

Primary Examiner - Michael W. Ball Assistant Examiner -- Richard Crispino Attorney, Agent, or Firm-Keith Kline

[57]

ABSTRACT

A container for a memory card and the process by which the container is manufactured. The container comprises chiefly two stamped steel covers, (an upper and a lower cover half), each secured to a plastic frame element. The cover halves are secured by extended fingers which wrap around the plastic frame. This provides a double layer of metal at the perimeter of the frame. The two cover halves are situated so as to encapsulate the subject PCB and to affix it in its proper position. The two cover halves are then welded together using sonic welding on the plastic frame. The frame has been designed to meet all PCMCIA standards, including polarizing keys and grounding points.

6 Claims, 4 Drawing Sheets

United States Patent 1191

Farquhar et al. [54] PCMCIA STANDARD MEMORY CARD FRAME [75] Inventors: Jim Farquhar, Coronado; Charlie Centofante, Hollister; Ken Dorf, San Jose; Brandt Weibezahn, Pleasanton; Iggoni Fajardo, San Jose, all of Calif [73] Assignee: Dual Systems, San Jose, Calif. [21] Appl No: 92,012 [22] Filed: Jul. 15, 1993 [51] Int. Cl.6 HOSK 5/03; HOSK 7/00 [52] U.S. Cl. 174/52.1; 361/753; 361/575 [58] Field of Search 361/684, 737, 748, 753. 361/752; 757; 174/52.4, 52.5, 52 1; 428/76, 192, 542.8; 156/73.1; 264/248, 272.17 [56] References Cited U.S. PATENT DOCUMENTS 3.579,817 5/1971 Boyle 3,901,731 8/1975 Watsrawaski et al. 4.164,068 8/1979 Shropshire et al ... 4,305,897 12/1981 Hazama et al . . . 5,107,073 4/1992 Stellen 1/4/52 1

5,242,310 9/1993 Leung

Attachment to Each Declaration



Patent Number: [11]

5,397,857

Date of Patent: [45]

Mar. 14, 1995

OTHER PUBLICATIONS

Branson Technical Brochute, PW-4, Ultrasonic Inser-

Branson Technical Brochure, PW-3, Joint Design For Ultrasonic Welding, Aug. 1980.

ABSTRACT

Primary Examiner -- Michael W. Ball Assistant Examiner -- Richard Crispino Attorney, Agent, or Firm-Keith Kline

[57]

A container for a memory card and the process by which the container is manufactured. The container comprises chiefly two stamped steel covers, (an upper and a lower cover half), each secured to a plastic frame element. The cover halves are secured by extended fingers which wrap around the plastic frame. This provides a double layer of metal at the perimeter of the frame. The two cover halves are situated so as to encapsulate the subject PCB and to affix it in its proper position. The two cover halves are then welded together using sonic welding on the plastic frame. The frame has been designed to meet all PCMCIA standards, including polarizing keys and grounding points.

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